

Supplemental Materials – Borgert et al.

Examples of Industry Toxicity Studies Published in Scientific Journals

- Agrawal SC, Gupta S. Survival and reproduction of some blue-green and green algae as affected by sewage water, fertilizer factory effluent, brassica oil, phenol, toluene and benzene. *Folia Microbiol (Praha)*. 2009;54:67-73
- Beliles RP, Butala JH, Stack CR, Makris S. Chronic toxicity and three-generation reproduction study of styrene monomer in the drinking water of rats. *Fundam Appl Toxicol*. 1985;5:855-868
- Bellet EM, van Ravenzwaay B, Pigott G, Leeming N. Chronic dietary toxicity and oncogenicity evaluation of MCPA (4-chloro-2-methylphenoxyacetic acid) in rodents. *Regul Toxicol Pharmacol*. 1999;30:223-232.
- Benson JM, Gigliotti AP, March TH, et al. Chronic carcinogenicity study of gasoline vapor condensate (GVC) and GVC containing methyl tertiary-butyl ether in F344 rats. *J Toxicol Environ Health A*. 2011;74:638-657.
- Bernard BK, Hoberman AM, Brown WR, Ranpuria AK, Christian MS. Oral (gavage) two-generation (one litter per generation) reproduction study of pentachlorophenol (penta) in rats. *Int J Toxicol*. 2002;21:301-318.
- Bevan C, Tyler TR, Gardiner TH, Kapp RW, Andrews L, Beyer BK. Two-generation reproduction toxicity study with isopropanol in rats. *J Appl Toxicol*. 1995;15:117-123.
- Biles RW, Schroeder RE, Holdsworth CE. Methyl tertiary butyl ether inhalation in rats: A single generation reproduction study. *Toxicol Ind Health*. 1987;3:519-534.
- Blacker AM, Schroeder RE, English JC, Murphy SJ, Krasavage WJ, Simon GS. A two-generation reproduction study with hydroquinone in rats. *Fundam Appl Toxicol*. 1993;21:420-424.
- Breslin WJ, Kirk HD, Streeter CM, Quast JF, Szabo JR. 1,3-dichloropropene: Two-generation inhalation reproduction study in fischer 344 rats. *Fundam Appl Toxicol*. 1989;12:129-143.
- Butenhoff JL, Kennedy GL, Chang SC, Olsen GW. Chronic dietary toxicity and carcinogenicity study with ammonium perfluorooctanoate in sprague-dawley rats. *Toxicology*. 2012;298:1-13.
- Butler JD, Parkerton TF, Letinski DJ, Bragin GE, Lampi MA, Cooper KR. A novel passive dosing system for determining the toxicity of phenanthrene to early life stages of zebrafish. *Sci Total Environ*. 2013;463-464:952-958.
- Byrd RA, Sorden SD, Ryan T, et al. Chronic toxicity and carcinogenicity studies of the long-acting GLP-1 receptor agonist dulaglutide in rodents. *Endocrinology*. 2015;156:2417-2428.
- Carrillo JC, Adenuga MD, McKee RH. The sub-chronic toxicity of regular white spirit in rats. *Regul Toxicol Pharmacol*. 2014;70:222-230.
- Charles JM, Tobia A, van Ravenzwaay B. Subchronic and chronic toxicological investigations on metiram: The lack of a carcinogenic response in rodents. *Toxicol Sci*. 2000;54:481-492.
- Christian MS, York RG, Hoberman AM, Fisher LC, Brown WR. Oral (drinking water) two-generation reproductive toxicity study of bromodichloromethane (BDCM) in rats. *Int J Toxicol*. 2002;21:115-146.
- Christian MS, York RG, Hoberman AM, et al. Oral (drinking water) two-generation reproductive toxicity study of dibromoacetic acid (DBA) in rats. *Int J Toxicol*. 2002;21:237-276.
- Cruzan G, Faber WD, Johnson KA, et al. Two generation reproduction study of styrene by inhalation in crl-cd rats. *Birth Defects Res B Dev Reprod Toxicol*. 2005;74:211-220.
- DePass LR, Woodside MD, Maronpot RR, Weil CS. Three-generation reproduction and dominant lethal mutagenesis studies of ethylene glycol in the rat. *Fundam Appl Toxicol*. 1986;7:566-572.

- de Peyster A, Mihaich E, Hyung KD, Elyea WA, Nemec MJ, Hirakawa BP, Leggieri SE. Responses of the steroidogenic pathway from exposure to methyl-tert-butyl ether and tert-butanol. *Toxicology*. 2014;319:23-27.
- Deyo JA. Carcinogenicity and chronic toxicity of di-2-ethylhexyl terephthalate (DEHT) following a 2-year dietary exposure in fischer 344 rats. *Food Chem Toxicol*. 2008;46:990-1005.
- Dodd D, Willson G, Parkinson H, Bermudez E. Two-year drinking water carcinogenicity study of methyl tertiary-butyl ether (MTBE) in wistar rats. *J Appl Toxicol*. 2013;33:593-606.
- Elcock LE, Stuart BP, Wahle BS, et al. Tumors in long-term rat studies associated with microchip animal identification devices. *Exp Toxicol Pathol*. 2001;52:483-491.
- Endres JR, Qureshi I, Farber T, et al. One-year chronic oral toxicity with combined reproduction toxicity study of a novel probiotic, bacillus coagulans, as a food ingredient. *Food Chem Toxicol*. 2011;49:1174-1182.
- Faber WD, Roberts LS, Stump DG, et al. Two generation reproduction study of ethylbenzene by inhalation in crl-cd rats. *Birth Defects Res B Dev Reprod Toxicol*. 2006;77:10-21.
- Foradori CD, Sawhney Coder P, Tisdel M, Yi KD, Simpkins JW, Handa RJ, Breckenridge CB. The effect of atrazine administered by gavage or in diet on the LH surge and reproductive performance in intact female Sprague-Dawley and Long Evans rats. *Birth Defects Res B Dev Reprod Toxicol*. 2014;101:262-75.
- Gill MW, Swanson MS, Murphy SR, Bailey GP. Two-generation reproduction and developmental neurotoxicity study with sodium chlorite in the rat. *J Appl Toxicol*. 2000;20:291-303.
- Goldsmith LA. Acute and subchronic toxicity of sucralose. *Food Chem Toxicol*. 2000;38 Suppl 2:S53-S69.
- Heilman J, Anyangwe N, Tran N, Edwards J, Beilstein P, López J. Toxicological evaluation of an olive extract, H35: Subchronic toxicity in the rat. *Food Chem Toxicol*. 2015.
- Hushka LJ, Waterman SJ, Keller LH, et al. Two-generation reproduction studies in rats fed di-isodecyl phthalate. *Reprod Toxicol*. 2001;15:153-169.
- Jean PA, Plotzke KP, Scialli AR. Chronic toxicity and oncogenicity of decamethylcyclopentasiloxane in the fischer 344 rat. *Regul Toxicol Pharmacol*. 2015.
- Johannsen FR, Levinskas GJ. Comparative chronic toxicity and carcinogenicity of acrylonitrile by drinking water and oral intubation to spartan sprague-dawley rats. *Toxicol Lett*. 2002;132:197-219.
- Johannsen FR, Levinskas GJ. Chronic toxicity and oncogenic dose-response effects of lifetime oral acrylonitrile exposure to fischer 344 rats. *Toxicol Lett*. 2002;132:221-247.
- Karaman S, Barnett J, Sykes GP, Hong B, Delaney B. Two-generation reproductive and developmental toxicity assessment of dietary n-acetyl-l-aspartic acid in rats. *Food Chem Toxicol*. 2011;49:3192-3205.
- Kaufmann W, Deckardt K, McKee RH, Butala JH, Bahneemann R. Tumor induction in mouse liver: Di-isonyl phthalate acts via peroxisome proliferation. *Regul Toxicol Pharmacol*. 2002;36:175-183.
- Kodama T, Watanabe E, Masuyama T, et al. Studies of the toxicological potential of capsinoids: III. A two-generation reproduction study of CH-19 sweet extract in rats. *Int J Toxicol*. 2008;27 Suppl 3:29-39.
- Landin WE, Mun GC, Nims RW, Harbell JW. Use of the cytosensor microphysiometer to predict results of a 21-day cumulative irritation patch test in humans. *Toxicol In Vitro*. 2007;21:1165-1173.
- Levine SL, von Mérey G, Minderhout T, Manson P, Sutton P. Aminomethylphosphonic acid has low chronic toxicity to daphnia magna and pimephales promelas. *Environ Toxicol Chem*. 2015;34:1382-1389.
- Lieder PH, York RG, Hakes DC, Chang SC, Butenhoff JL. A two-generation oral gavage reproduction study with potassium perfluorobutanesulfonate (K+PFBS) in sprague dawley rats. *Toxicology*. 2009;259:33-45.
- MacKenzie K, Henwood S, Foster G, et al. Three-generation reproduction study with dioctyl sodium sulfosuccinate in rats. *Fundam Appl Toxicol*. 1990;15:53-62

- Malley LA, Kennedy GL, Elliott GS, et al. Chronic toxicity and oncogenicity of n-methylpyrrolidone (NMP) in rats and mice by dietary administration. *Drug Chem Toxicol.* 2001;24:315-338.
- Mann SW, Yuschak MM, Amyes SJ, Aughton P, Finn JP. A combined chronic toxicity/carcinogenicity study of sucralose in sprague-dawley rats. *Food Chem Toxicol.* 2000;38 Suppl 2:S71-S89.
- Marty MS, Neal BH, Zablotny CL, Yano BL, Andrus AK, Woolhiser MR, Boverhof DR, Saghir, SA, Perala AW, Passage JK, Lawson MA, Bus JS, Lamb JC IV, Hammond L. An F1-extended one generation reproductive toxicity study (EOGRTS) in CRL:CD(SD) rats with 2,4-dichlorophenoxyacetic acid (2,4-D). *Toxicol. Sci.* 2013;136, 527-547.
- McConnell EE, Axten C, Hesterberg TW, et al. Studies on the inhalation toxicology of two fiberglasses and amosite asbestos in the syrian golden hamster. Part II. Results of chronic exposure. *Inhal Toxicol.* 1999;11:785-835.
- Mihaich E, Erler S, Le Blanc G, Gallagher S. Short term fish reproduction assays with methyl tertiary butyl ether (MTBE) with zebrafish and fathead minnow: Implications for evaluation of potential for endocrine activity. *Environ Toxicol Chem.* 2015;30:17.
- Mihaich E, Rhodes J, Wolf J, van der Hoeven N, Dietrich D, Hall AT, Caspers N, Ortego L, Staples C, Dimond S, Hentges S. Adult fathead minnow, *Pimephales promelas*, partial life-cycle reproductive and gonadal histopathology study with bisphenol A. *Env Toxicol Chem.* 2012;31:2525-2535.
- Morrall DD, Belanger SE, Dunphy JC. Acute and chronic aquatic toxicity structure-activity relationships for alcohol ethoxylates. *Ecotoxicol Environ Saf.* 2003;56:381-389.
- Nair RS, Barter JA, Schroeder RE, Knezevich A, Stack CR. A two-generation reproduction study with monochlorobenzene vapor in rats. *Fundam Appl Toxicol.* 1987;9:678-686.
- Nitschke KD, Eisenbrandt DL, Lomax LG, Rao KS. Methylene chloride: Two-generation inhalation reproductive study in rats. *Fundam Appl Toxicol.* 1988;11:60-67.
- Oller AR, Costa M, Ober dorster G. Carcinogenicity assessment of selected nickel compounds. *Toxicol Appl Pharmacol.* 1997;143:152-166.
- Otake A, Fujieda T, Masuyama T. Chronic toxicity and carcinogenicity of N-[N-[3-(3-hydroxy-4-methoxyphenyl) propyl]- α -aspartyl]-l-phenylalanine 1-methyl ester, monohydrate (advantame) in the rat. *Food Chem Toxicol.* 2011;49 Suppl 1:S35-S48.
- Otake A, Fujieda T, Masuyama T. A two-generation reproductive toxicity study of the high-intensity sweetener advantame in CD rats. *Food Chem Toxicol.* 2011;49 Suppl 1:S70-S76.
- Rusch GM, Millischer RJ, de Rooij C, Brooker AJ, Hughes E, Coombs D. Inhalation teratology and two-generation reproduction studies with 1,1-dichloro-1-fluoroethane (hcfc-141b). *Food Chem Toxicol.* 1995;33:285-300.
- Ryan BM, Selby R, Gingell R, et al. Two-generation reproduction study and immunotoxicity screen in rats dosed with phenol via the drinking water. *Int J Toxicol.* 2001;20:121-142.
- Schneider S, Kaufmann W, Strauss V, van Ravenzwaay B. Vinclozolin: A feasibility and sensitivity study of the ILSI-HESI f1-extended one-generation rat reproduction protocol. *Regul Toxicol Pharmacol.* 2011;59:91-100.
- Sehata S, Maejima T, Watanabe M, et al. Twenty-six-Week carcinogenicity study of chloroform in CB6F1 *rash2*-transgenic mice. *Toxicol Pathol.* 2002;30:328-338.
- Serota DG, Hoberman AM, Friedman MA, Gad SC. Three-generation reproduction study with caprolactam in rats. *J Appl Toxicol.* 1988;8:285-293.
- Short RD, Johannsen FR, Schardein JL. A two-generation reproduction study in rats receiving diets containing hexamethylenediamine. *Fundam Appl Toxicol.* 1991;16:490-494.
- Spencer PJ, Crissman JW, Stott WT, et al. Propylene glycol monomethyl ether (PGME): Inhalation toxicity and carcinogenicity in fischer 344 rats and B6C3F1 mice. *Toxicol Pathol.* 2002;30:570-579.

- Stebbins KE, Johnson KA, Jeffries TK, et al. Chronic toxicity and oncogenicity studies of ingested 1, 3-dichloropropene in rats and mice. *Regul Toxicol Pharmacol*. 2000;32:1-13.
- Stebbins KE, Bond DM, Novilla MN, Reasor MJ. Spinosad insecticide: Subchronic and chronic toxicity and lack of carcinogenicity in CD-1 mice. *Toxicol Sci*. 2002;65:276-287.
- Swaroop A, Bagchi M, Kumar P, et al. Safety, efficacy and toxicological evaluation of a novel, patented anti-diabetic extract of *Trigonella foenum-graecum* seed extract (fenfuro). *Toxicol Mech Methods*. 2014;24:495-503.
- Tatarazako N, Takao Y, Kishi K, Onikura Na, Arizono K, Iguchi T. Styrene dimers and trimers affect reproduction of daphnid (*Ceriodaphnia dubia*). *Chemosphere*. 2002;48:597-601.
- Tarka SM, Morrissey RB, Apgar JL, Hostetler KA, Shively CA. Chronic toxicity/carcinogenicity studies of cocoa powder in rats. *Food Chem Toxicol*. 1991;29:7-19.
- Tepper J, Ochoa R, Rix P, et al. A 26-week toxicity assessment of AIR001 (sodium nitrite) by inhalation exposure in rats and by intravenous administration in dogs. *Int J Toxicol*. 2014;33:162-174.
- Toth GP, Zenick H, Smith MK. Effects of epichlorohydrin on male and female reproduction in long-evans rats. *Fundam Appl Toxicol*. 1989;13:16-25.
- Trimmer GW, Freeman JJ, Priston RA, Urbanus J. Results of chronic dietary toxicity studies of high viscosity (P70H and P100H) white mineral oils in fischer 344 rats. *Toxicol Pathol*. 2004;32:439-447.
- Van Miller JP, Hermansky SJ, Losco PE, Ballantyne B. Chronic toxicity and oncogenicity study with glutaraldehyde dosed in the drinking water of fischer 344 rats. *Toxicology*. 2002;175:177-189.
- Versteeg DJ, Rawlings JM. Bioconcentration and toxicity of dodecylbenzene sulfonate (C12LAS) to aquatic organisms exposed in experimental streams. *Arch Environ Contam Toxicol*. 2003;44:237-246.
- Versteeg DJ, Rawlings J, Bozso E, Shi J. The acute and chronic toxicity of hexadecyl and heptadecyl sulfate to aquatic organisms. *Arch Environ Contam Toxicol*. 2006;51:43-53.
- Wahle BS, Sangha GK, Lake SG, Sheets LP, Crutch C, Christenson WR. Chronic toxicity and carcinogenicity testing in the sprague-dawley rat of a prospective insect repellent (KBR 3023) using the dermal route of exposure. *Toxicology*. 1999;142:41-56.
- Wise LD, Cartwright ME, Seider CL, Sachuk LA, Lankas GR. Dietary two-generation reproduction study of thiabendazole in sprague-dawley rats. *Food Chem Toxicol*. 1994;32:239-246.
- Wolterbeek A, Oosterwijk T, Schneider S, et al. Oral two-generation reproduction toxicity study with NM-200 synthetic amorphous silica in wistar rats. *Reprod Toxicol*. 2015.
- Yano BL, Bond DM, Novilla MN, McFadden LG, Reasor MJ. Spinosad insecticide: Subchronic and chronic toxicity and lack of carcinogenicity in fischer 344 rats. *Toxicol Sci*. 2002;65:288-298.
- Yimam M, Lee YC, Hyun EJ, Jia Q. Reproductive and developmental toxicity of orally administered botanical composition, up446-part III: Effects on fertility and early embryonic development to implantation in sprague dawley rats. *Birth Defects Res B Dev Reprod Toxicol*. 2015.
- York RG, Brown WR, Girard MF, Dollarhide JS. Two-generation reproduction study of ammonium perchlorate in drinking water in rats evaluates thyroid toxicity. *Int J Toxicol*. 2001;20:183-197.